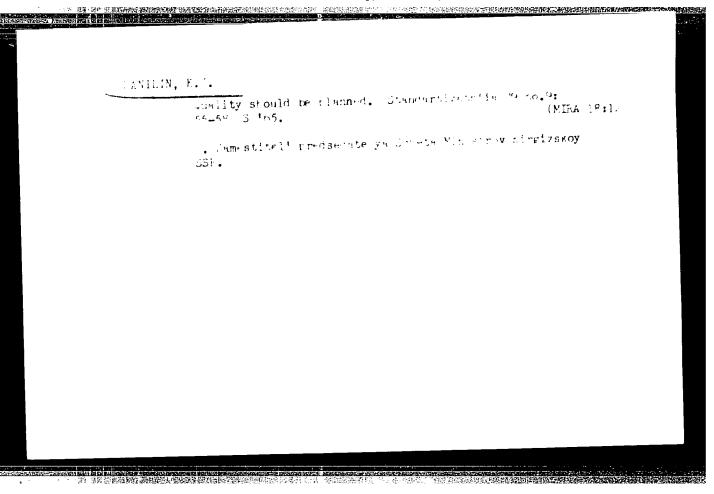
Operating Expe	erience with Expansion Switches on Electric Furnaces		
ASSOCIATION:	Zavod "Krasnyy Oktyabr'" ("Krasnyy Oktyabr'" Works)		
	1. GwitchesPerformance 1. Electric firnacesControl systems		
Card 2/2			
0014 272			

PRZHEGORLINSKIY, D.F., inzh.; DANILIN, I.T., inzh.

Amplidyne transfer to a reduced rate. Stal' 23 no.12:1094 D '63.

(MIRA 17:2)

1. Yugenergochermet i Volgogradskiy metallurgicheskiy zavod "Krasnyy Oktyabr'".

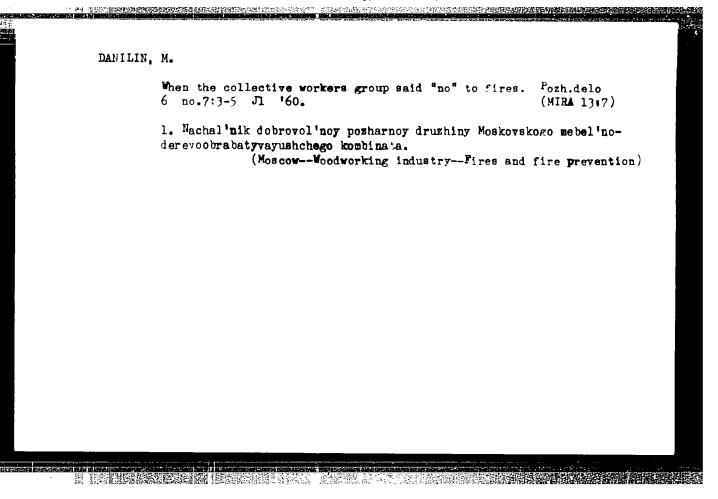


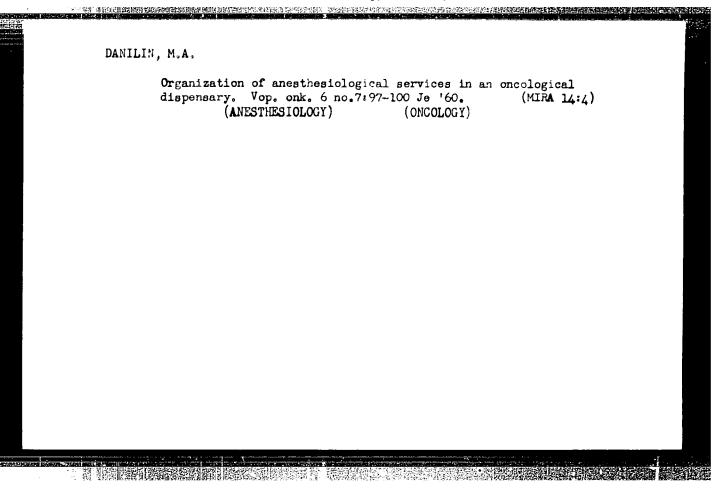
DANILIN, L.A.; DANILOV, V.K.; IVANKIN, M.1.

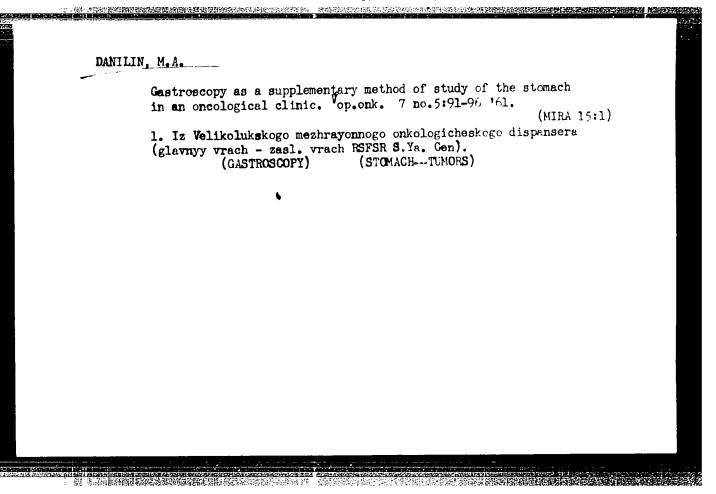
Four-beam pulsed oscillograph. Priborostroenie nc.10:24-25
0 '63.

(MIRA 16:11)

ACC NR. AP7002767	SOURCE CODE: UR/0089/66/021/002/0112	2/0116
AUTHOR: Danilin, L. D.; Lobov, S.	I.; Pavlova-Verevking, A. I.; Tsukerman, V.	<b>A</b>
ORG: none		24
TITLE: Radioactive source of soft	V multiples for shugies) investigations to	baalast.
and medicine	X radiation for physical investigations, tec	innotogy,
SOURCE: Atomnaya energiya, v. 21,	no. 2, 1966, 112-116	
TOPIC TAGS: radioisotope, x radiat	ion	<u> </u> 
sources using The are described.	paration methods for the developing radiation. Uses of the soft x radiation from the isotomuro, microradiography, and medical purposes ires. [NA]	pe ¦
SUB CODE: 18 / SUBM DATE: 10Dec65	6 / ORIG REF: 007 / OTH REF: 001	i
		i
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DANILIN, M.A.

Single-stage bronchoscopy and bronchgraphy under local anesthesia under dispensary conditions. Vest.khir. 87 no.ll:114-115 N '61. (MIRA 15:11)

1. Iz Welikolukskogo mentrayonnogo onkologicheskogo dispansera (gl. vrach - maslumennyy vrach RSFSR 5.Ia. Gen). (HRONCHOSCOPY) (BRONCHI--RADIOGRAPHY) (LOCAL ANESTHESIA)

YUKHNOVICH, A.N., veter. vrach (Yel'ninskiy rayon, Smolenskoy oblasti);
RUDOMETKIN, Ya.S., veter. vrach; EVENTOV, M.Z., veter. vrach;
SOBOLEV, A.S., dotsent (Estonskaya SSR); DOL'NIKOV, Yu.Ya., kand.
veter. nauk; PALIMPSESTOV, M.A., prof.; SIMONENKO, N.M., dotsent;
GONCHAROV, A.P., assistent; BEZRUKOV, A.A.; FROLENKOV, N.A., veter.
vrach (Serov, Sverdlovskoy oblasti); KOSHCHEYEV, P.M.; VOROB'YEV,
M.M., kand. veter. nauk; YANCHENKO, P.Kh., veter. vrach;
AMELIN, I.P.; BYCHKOV, A.I., kand. veter. nauk; SHVYREV, G.I.,
veter. vrach (Stavropol'skiy kray); DANILIN, N.F.; TRUSHIN, A.Z.,
veter. vrach; SKRYPNIKOVA, T.K., veter. fel'dsher; MIKHEYEV, A.D.;
KARMANOVA, Ye.M., kand. biol. nauk, REMIZOV, Ye.S., mladshiy
nauchnyy sotrudnik; ANTIPIN, D.N., referent

From helminthological practice, Veterinaria 38 no.7:55-58 Jl 161. (MIRA 16:8)

l. Reshetovskiy veterinarnyy uchastok, Novosibirskoy oblasti (for Rudometkin). 2. Scokhoz \*Buda-Koshelevskiy\* Gomel'skoy oblasti (for Eventov). 3. Sibirskiy nauchno-issledovatel'skiy veterinarnyy institut (for Dol'nikov). 4. Khar'kovskiy veterinarnyy institut (for Palimpsestov, Simonenko, Goncharov). 5. Blagoveshchenskiy sel'skokhozyaystvennyy institut (for Bezrukov). 6. Novo-Nikolayevskiy veterinarnyy uchastok Krasno-darskogo kraya (for Lochkarev). 7. Karpilovskiy veterinarnyy uchastok Chernigovskoy oblasti (for Ponomarenko). 8. Kamalinskiy veterinarnyy uchastok Krasnoyarskogo kraya (for Koshcheyev).

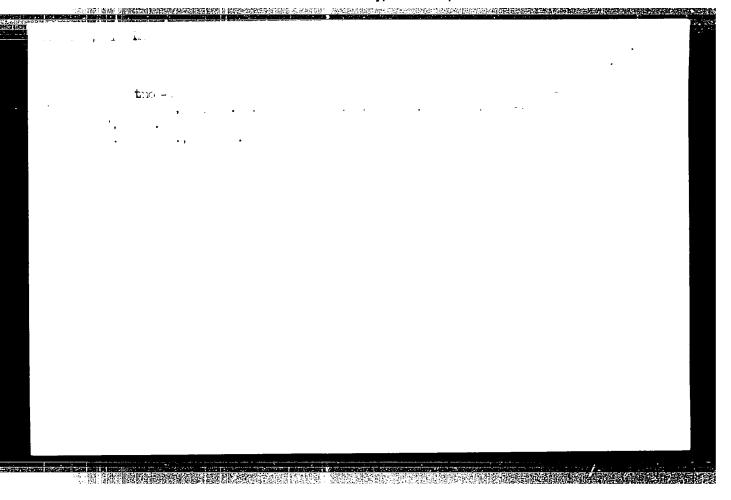
(Continued on next card)

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001109

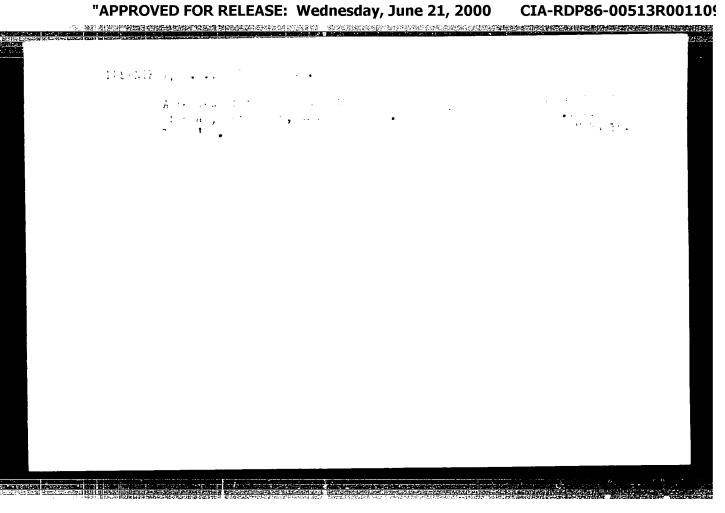
YUKHNOVICH, A.N.——(continued) Card 2.

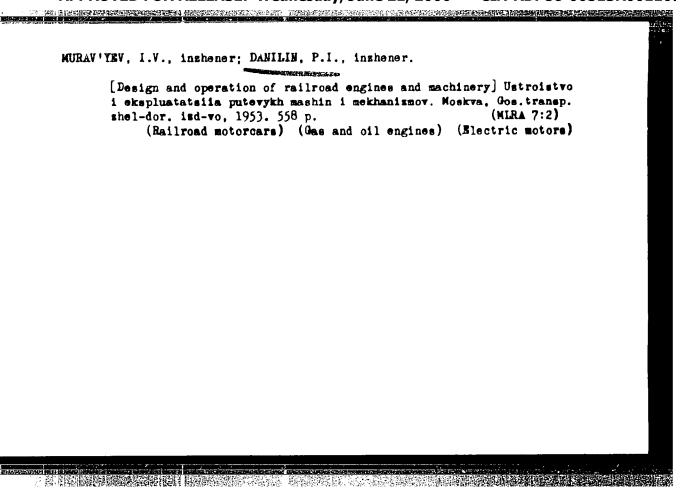
9. Novgorod-Severskaya meshrayennaya veterinarnaya laboratoriya,
Poltavskoy oblasti (for Vorob'yev). 10. Braginskaya rayonnaya
veterinarnaya lechebnitsa, Gomel'skoy oblasti (for Yanchenko).
11. Nachal'nik veterinarnogo otdela Chelyabinskogo oblastnogo
sel'skokhozyaystvennogo upravleniya (for Amelin). 12. Chelyabinskaya oblastnaya veterinarnyaya laboratoriya (for Bychkov).
13. Kaliningradskaya nauchno-issledovatel'skaya veterinarnaya
stantsiya (for Danilin). 14. Sovkhoz "Rodina" Kikvidzenskogo
rayona, Stalingradskoy oblasti (for Trushin, Skrypnikova).
15. Zaveduyushchiy Kirovo-Chepetskoy myaso-molochnoy i pishchevoy
kontrol'noy stantsiyey, Kirovskoy oblasti (for Mikheyev).
16. Gel'mintologicheskaya laboratoriya AN SSSR (for Karmanova).
17. Zapadno-Kazakhstanskaya nauchno-isslédovatel'skaya veterinarnaya stantsiya (for Remizov).

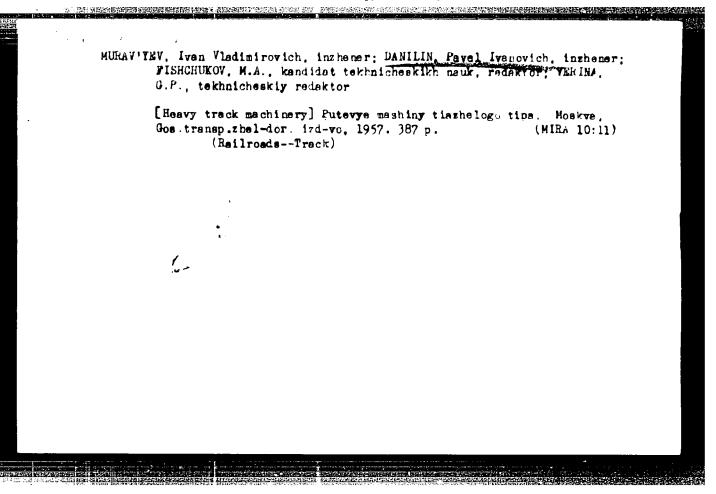
(Veterinary helminthology)

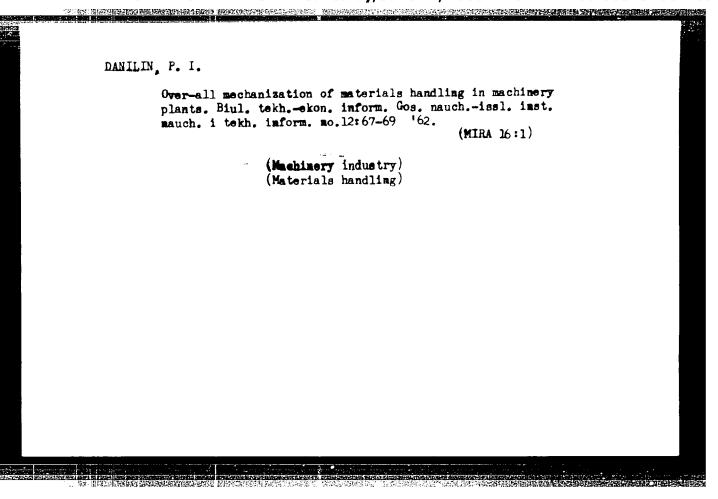


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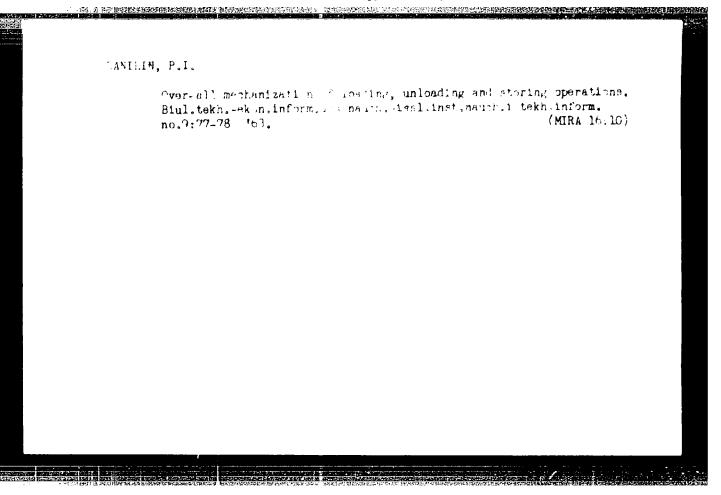


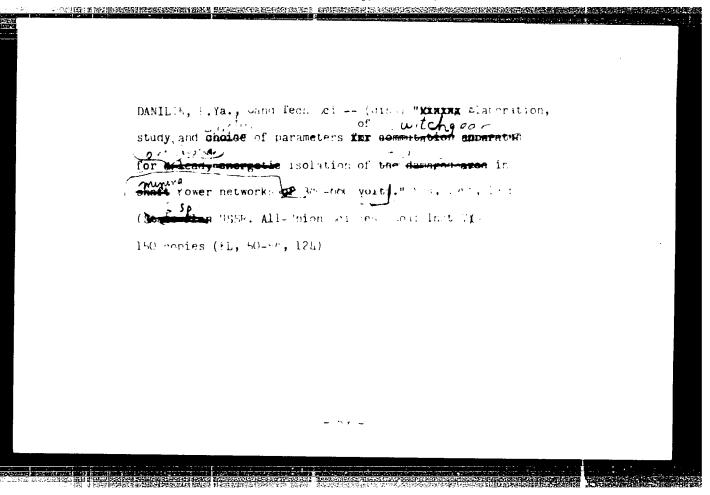
### DANILIN, P.I.

Over-all mechanization of conveying, loading and unloading and ware-house operations in enterprises of ferrous and nonferrous metallurgy.

Mul.tekh.-ekon.inform.Gos.nauch.-issl.inst.nauch.i tekh.inform.
no.1:76-78 \*63. (MIRA 16:2)

(Metallurgical plants-Technological innovations)





8(2) SOV/112-59-1-818

一致。[1976][1

Translation from: Referativnyy zhurnal. Elektrotekhnika, 1959, Nr 1, p 109 (USSR)

AUTHOR: Danilin, P. Ya.

TITLE: Investigation of the Spring-Magnetic Mechanism of a Mining-Type Short-Circuiting Contactor

PERIODICAL: V sb.: Avtomatiz. i elektrifik. ugol'n. prom-sti. M., Ugletekhizdat, 1958, pp 66-100

ABSTRACT: Bibliographic entry.

Card 1/1

SHISHKIN, Nikolay Fedorovich, kand.tekhn.nauk; OLEKSEVICH, Valeriy Pavlovich;

DANILIN Patr Vakovlevich; MIKHEYEV, Yuriy Aleksandrovich; SYCHEV,

Leonid Ivanovich. Prinimali uchastiye: SHALAGINOVA, T.S., ingh.;

SMORODINSKIY, Ya.M., kand.tekhn.nauk; KALINICHENKO, M.F., ingh.;

CHASHKIN, Ye.V., ingh.; ASTAF'YEV, V.D., ingh.; PROKOF'YEV, V.I.,

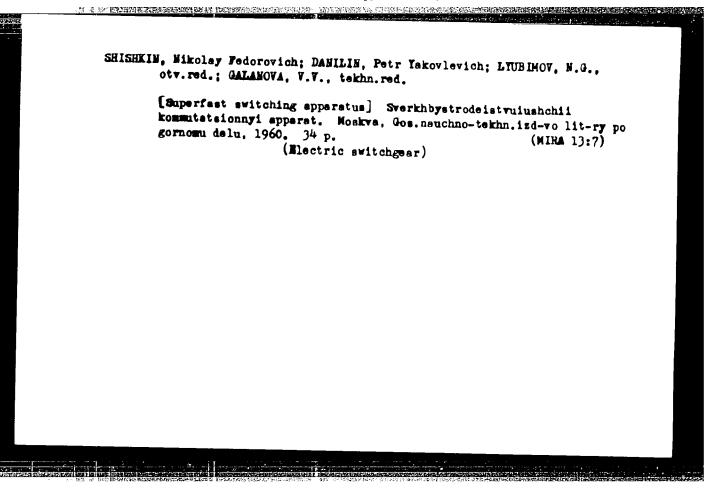
vedushchiy konstruktor; ROGOV, V.A., starshiy master; MOSKALENKO, V.M.,

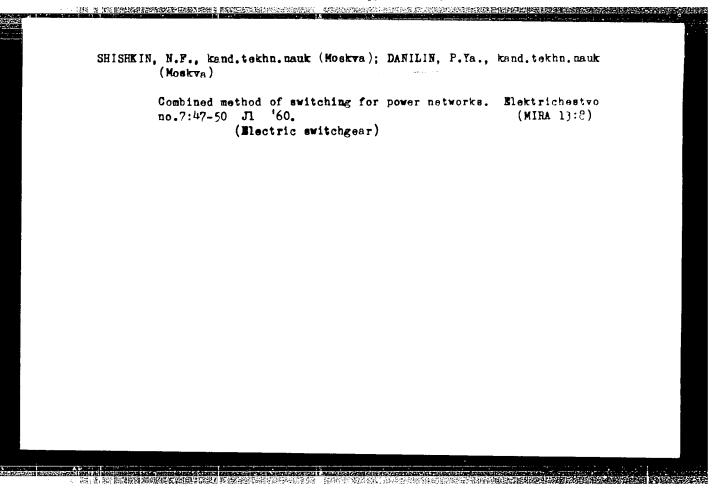
laborant; GERASIMOV, N.F., laborant; POPOV, N.A., kand.fisiko-matem.

nauk; KALINICHENKO, M.F., ingh., LYUBIMOV, N.G., otv.red.; ALADOVA,

Ye.I., tekhn.red.; PROZOROVSKAYA, V.L., tekhn.red.

[Protection of the electric equipment and cable networks in mines]
Zashchita shakhtnykh elektroustanovok i kabel'nykh setei. Pod red.
M.F.Shishkina. Moskva, Ugletekhizdat, 1959. 242 p. (MIRA 12:3)
(Electricity in mining) (Electric cables)





POLUYAN, I.G.; ZINATULLINA, A.M.; DANILIN, R.A.; RAFIKOV, R.A.

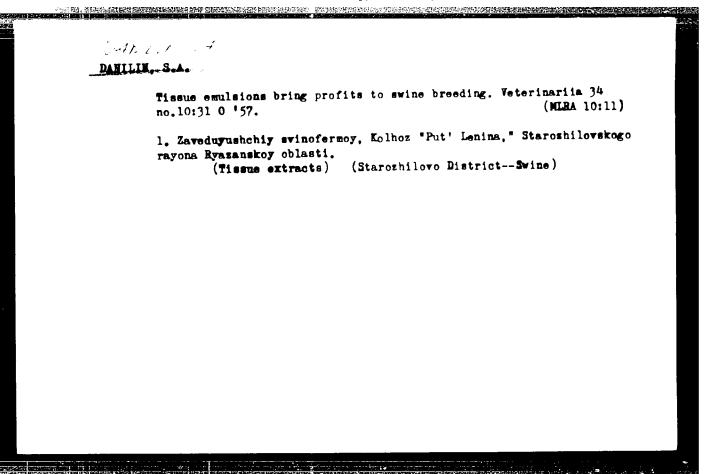
Results of the experimental exploitation and testing of limestone of the Tournai stage in the Bavly field. Nefteprom. delo no.10:8-13 '63. (MIRA 17:6)

1. Neftepromyslovoye upravleniye "Bavlyneft\*".

GAYNANSHIN, I.G.; ZINATULLINA, A.M.; DANILIN, R.A.; RAFIKOV, R.A.

Stimulating the recovery of oil in the Bavly field by using surfactants. Nefteprom. delo no.2:24-26 'e4. (MIRA 17:4)

1. Neftepromyslovoye upravleniye "Bavlyneft".



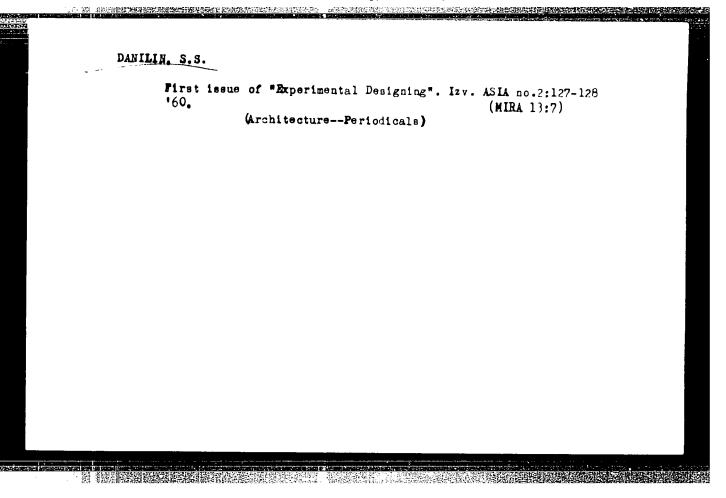
L 46955-66 EWI(m)/EWP(w)/I/EWP(t	t)/cri LiP(c) ID 182/66/000/009/0038/0038 SOURCE CODE: UR/0182/66/000/009/0038/0038	_
AUTHOR: Mokhov, A. I.; Danilin, S.	3. I. 70	{
ORG: none	, S	
	ns for 1Kh16N4B steel ingots and billets	
SOURCE: Kuznechno-shtampovochnoye	e proizvodstvo, no. 9, 1966, 38	
TOPIC TAGS: stainless steel, steel LKh16N4B stainless steel	el ingot heating, stimber ingt forging/	
1Kh16N4B stainless-steel Angots. 35—40 hr. Now, cold ingots are charg 1000C and held at this temperature to 15—17 hr. It was found that t with satisfactory macro- and micro spective tensile strength of tange		lon
SUB CODE: 13// SUBM DATE: none/		
Card 1/1 Jg	UDC: 621.78.5	
	the second secon	

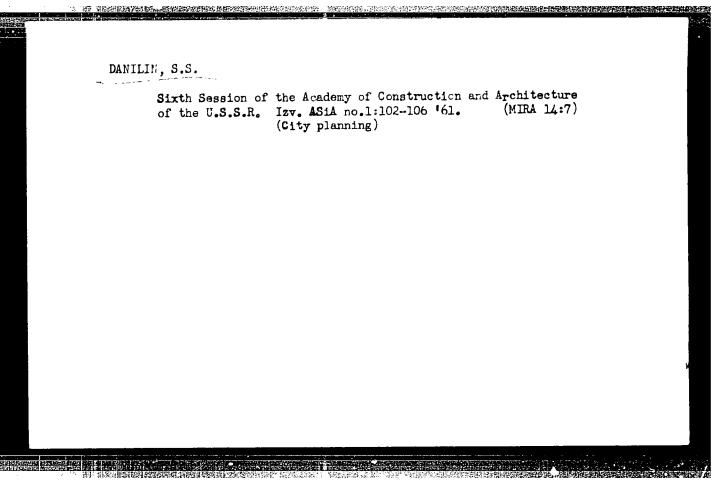
これの特別の対象がある。 こうしゅ おから キャラ・

DANILIS, S.S.

Pifth Session of the Academy of Construction and Architecture of the U.S.S.R. Izv. ASia no.1:9h-101 '60. (MIRA 13:9)

1. Lamestitel' rukovoditelya otdela nauchnykh izdaniy Akademii stroitel'stva i arkhitektury SSSR. (Building--Congresses)





```
Danilin, v.

A valuable invention. Prom.koop. 14 no.8:16-17 ag '60.

(MIRA 13:8)

1. Zamestitel' nachal'nika planovo-proizvodstvennogo otdela

Mosobltekstil'promsoyuza.

(Vinding machines)
```

DANILIN, V.

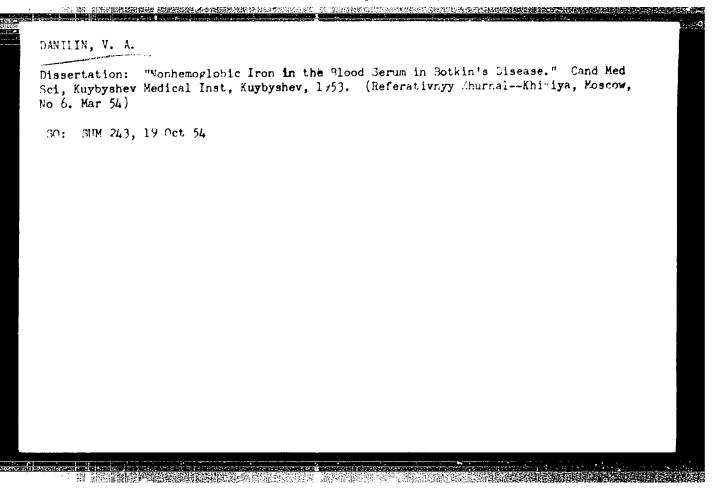
Under public control. NTO 5 no.6:51-52 Je '63. (MIRA 16:9)

1. Uchenyy sekretar' soveta nauchno-tekhnicheskogo obshchestva
Volgogradskogo metallurgicheskogo zavoda "Krasnyy Oktyabr'".

#### DANILIN, V. A.

On the non-hemoglobic iron level in blood in healthy subjects and in, liver diseases. Klin. med., Moskva 29 no.8:90 Aug 1951. (CIML 20:11)

1. Of the Hospital Therapeutic Clinic (Director -- Prof. A. I. Germanov). Kuybyshev Medical Institute.



133-6-24/33

AUTHORS: Babakov, A.A., Zhadan, T.A., Danilin, V.A., Bakuma, S.F., Antipov, K.I., Kul'kova, M.N. and Kupryakhina, S.Z.

An improvement in the technology of production of high-chromium plates. (U\_luchsheniye tekhnologii proizvodstva TITLE:

vysokokhromistogo tolstogo lista).

PERIODICAL: "Stal'" (Steel), 1957, No.6, pp.555-559 (USSR).

ABSTRACT: Optimum conditions of rolling and subsequent heat treatment of plates from steels X25T, X28 and X28 with nitrogen, under which the metal would attain mechanical properties satisfying TY5227-55 and good quality cutting and straightening properties in cold state, were investigated. The following participated in the work: Engineers B.Z.Kononov, V.V.Turitsyn, P.N.Sporyshkov, A.P.Okenko ("Krasnyy Oktyabr") and technician V.I.Shashina (TsNIIChM). It was found that in order to obtain steel plates of required properties slabs should be rolled in a temperature range from 980 to 1000 C - 720 to 800 C with cooling of plates in air.
Thermal treatment: a preliminary annealing at 760-780 C for 12-16 hours followed by hardening of each plate (individually) in water after heating the metal to the same temperature (soaking time 3 min per 1 mm thickness of the plate). Chemical composition of steel from the heats

Card 1/2

An improvement in the technology of production of high-chromium plates. (Cont.) 133-6-24/33

investigated is given in Table 1, mechanical properties of plates tested in Tables 2 to 6 and some examples of microstructure obtained under various conditions of processing in Figs. 2 to 4.

There are 6 tables and 4 figures.

ASSOCIATION: TsNIIChM and "Krasnyy Oktyabr'" Works. (TsNIIChM i zavod "Krasnyy Oktyabr'").

AVAILABLE: Library of Congress

Card 2/2

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DANILIN, V.A., dots, PLAVINSKAYA, N.Ya., kand.med.nauk

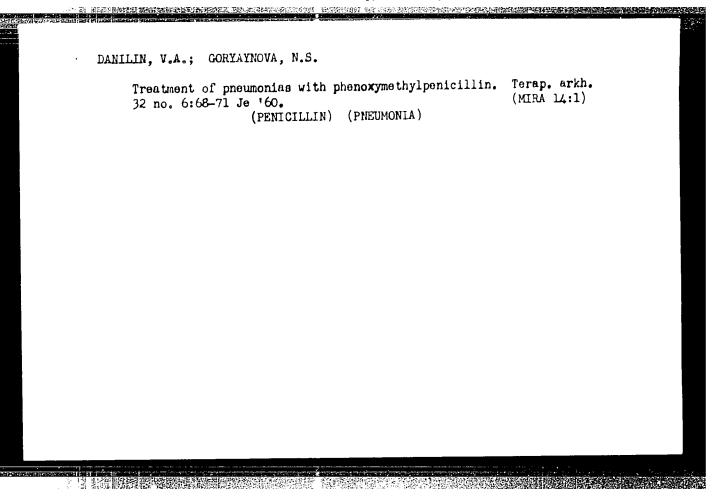
Clinical picture of acute leukoses. Sov.med. 22 no.5149-54 My '58

1. Iz kliniki gosnital'noy teranii (zav. - prof. A.I. Germaniv) i kliniki propedetticheskoy teranii (zav. - prof. S.V. Shestakov)

Kuybyahavskogo meditsinkogo inatituta.

(LEUKEMIA, manifest.

clin. manifest. (Rus))
```



DANILIN, V.A., dotsent

Rare case of diabetes insipidus developing during the course of pregnancy. Akush.i gin. no.6:98-00 '61. (MIRA 14:12)

1. Iz gospital'noy terapevticheskoy kliniki (zav. - prof. A.I. Germanov) Kuybyshevskogo meditsinskogo instituta.
(PREGNANCY, COMPLICATIONS OF) (DIABETES)

DARILIN, V.A., dotsent; KIM V<sup>a</sup>YEN

Case of subphrenic abscess with exudative pericarditis and pleurisy.
Klin.med. no.4:144-145 62. (MIRA 15:5)

1. Iz terapevticheskogo otdeleniya gospitalya kkhmero-sovetskoy

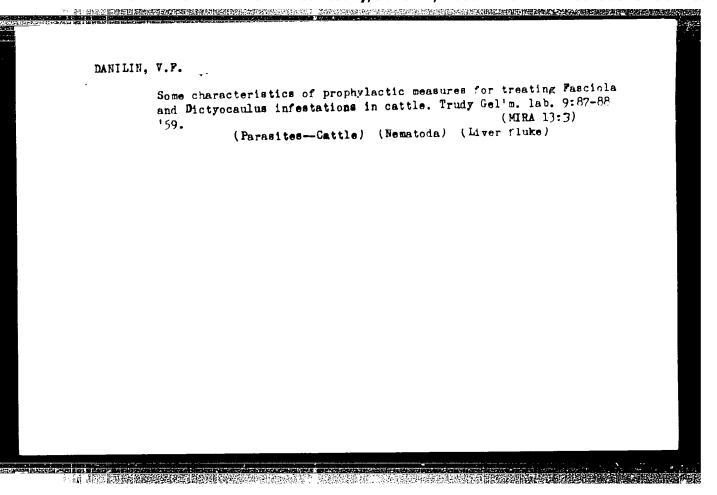
druzhby, g. Pnom-Pen'. (PLEURISY) (DIAPHRAGM-ABSCESS)

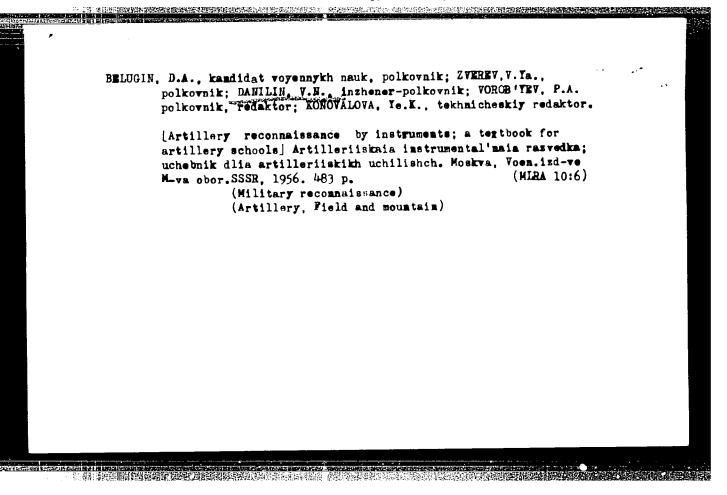
APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001109

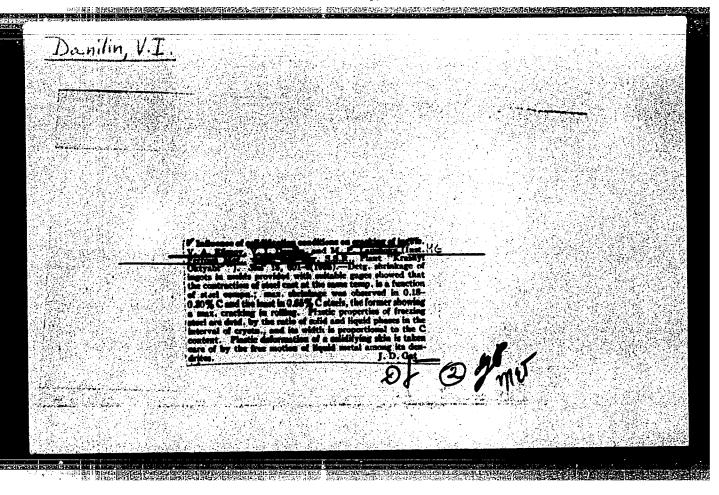
DANILIN, V.F., starshiy nauchnyy setrudnik.

Fusel eils in veterinary practice. Veterinariia 32 ne.11:76-77
N '55.

1. Kaliningradskaya VOS.
(FUSEL OIL) (VETERINARY MATERIAL MEDICA AND PHARMACY)

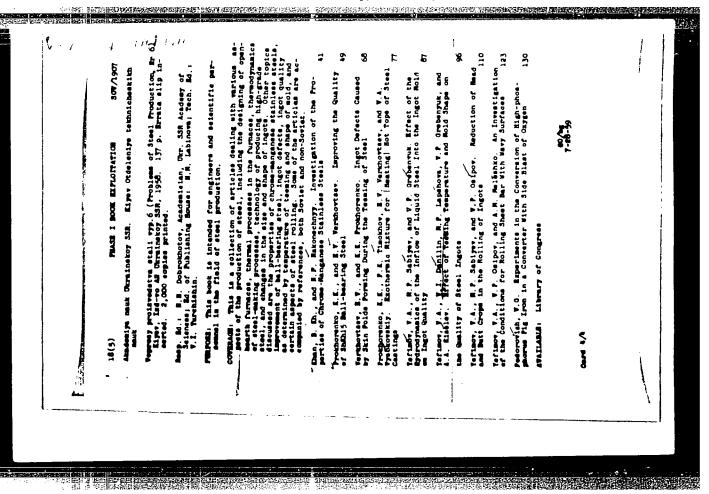






YEFIMOV, V.A.; DANILIN, V.I.; IAPSHOVA, M.P.

Shrinkage and plasticity of 6-ton steel ingots in the process of solidification. Vop.proizv.stali no.3:144-160 '56. (MLRA 9:11) (Steel ingots)



	sov/137-59-5-9 <b>8</b> 63
Translation f	rom Referativnyy zhurnal, Metallurgiya, 1959. Nr 5, p 57 (USSR)
AUTHORS	Tarashchuk, N.T., Klement'yev, V.V., Danilin, V.I., Lapshova, M.P., Lisov, I.V.
TITLE.	Smelting Chrome-Nickel Steels in Open Hearth Furnaces With the Use of Clotted Nickel Monoxide
PERIODICAL	Stalingr. prom-st' (Sovnarkhoz Stalingr. ekon. adm. r-na), 1958, Nr 2 - 3, pp 25 - 28
ABSTRACT	Clotted Ni monoxide was used instead of granulated Ni in Cr-Ni steel smelting in 50-ton open-hearth furnaces of the "Krasnyy Oktyabr'" plant. Clotted Ni monoxide was added to the charge or during the refining stage in ar amount of 1,000 to 1,800 kg per smelt. The smelting process was characterized by intensified boiling, particularly during the first 10 linutes after addition of Ni monoxide. Assimilation of Ni, already 5 minutes after its addition, was 98.5% on the average, the rate of burning-out of C was 0.38% per hour. If Ni monoxide was added
Card 1/2	to the refining pool, the smelting time was reduced by 33 minutes.

sov/137-59-5-9863

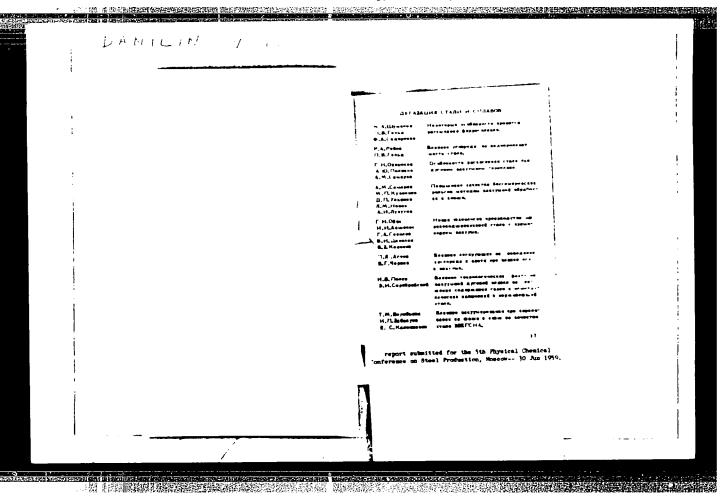
Smelting Chrome-Nickel Steels in Open Hearth Furnaces With the Use of Clotted Nickel Monoxide

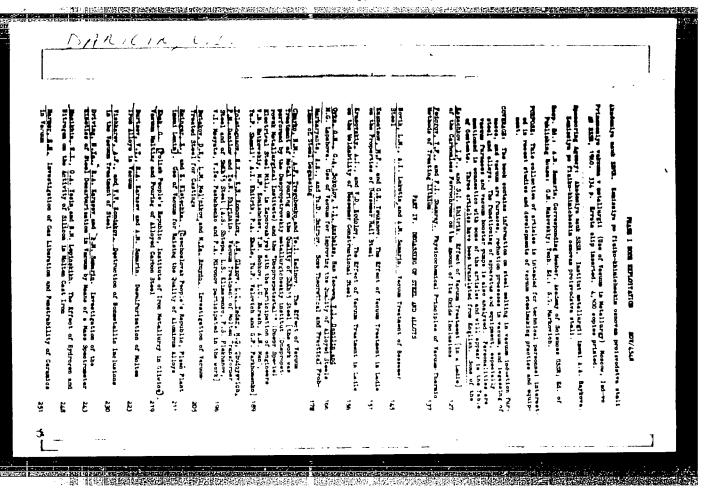
and the bubbling and final stage by 28 minutes. If the monoxide was added to the charge, the smelting time did not change. The addition of Ni monoxide instead of granulated Ni did not affect the mechanical properties, the degree of anisotropy, the macrostructure, the slatiness, and flake sensitivity of the steel. The prime cost of the steel was reduced.

1

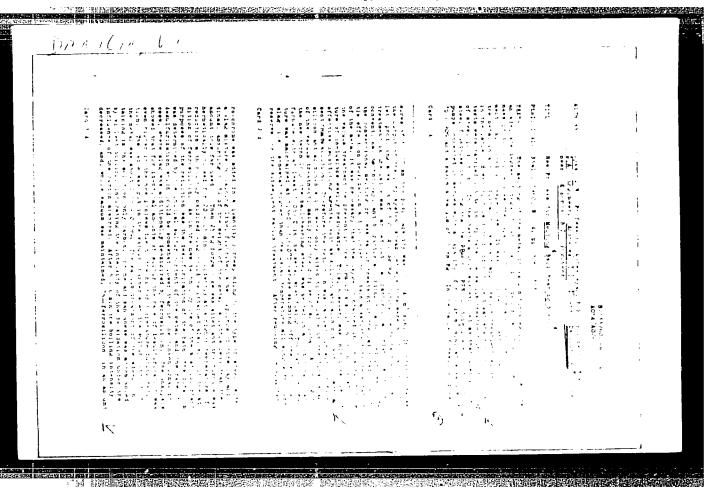
S.I.

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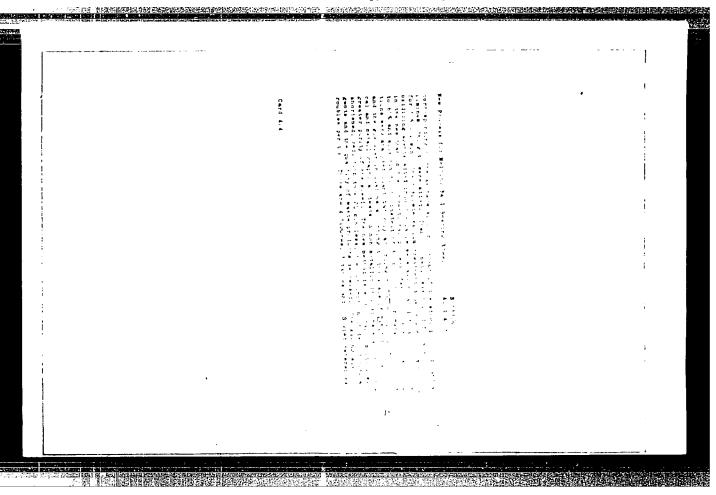




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接到,我们是可能是**的对抗多类的,因为这种关系的证明,这种对于对外的**对抗,可以可以可以不同的,但可以不同的,但可以不可以是是这种**的现在分词,这个人们的人们的**是是

TEFIMOV, Viktor Alekseyevich; LAPITSKIY, V.I., prof., doktor tekhn.neuk, retsenzent; YAKOVLEV, Yu.N., kand.tekhn.neuk, retsenzent; DANILIN, V.I., retsenzent; DOBROKHOTOV, N.N., eksdemik, red.; GROMOV, N.D., red.izd-ve; VAYNSHTEYN, Ye.B., tekhn.red.

[Steel ingots; casting and formation of the ingot] Stal'noi slitok; raslivka stali i formirovanie slitka. Pod red. N.M.Dobrokhotova. Moskva, Gos.nauchno-tekhn.isd-vo lit-ry po charnoi i tavetnoi metallurgii, 1961. 356 p. (MIRA 14:3)

1. AN USSR (for Dobrokhotov). 2. Nachal'nik TSentral'noy zavodakoy laboratorii zavoda "Krasnyy Oktyabr'" (for Danilin).

(Steel ingota)

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PHASE I BOOK EXPLOITATION

80V/5556

Moscow. Institut stali.

DANGE L

Novoye v teorii i praktike proizvodstva martenovskoy stali (Nev [Developments] in the Theory and Practice of Open-Hearth Steelmaking) Moscow, Metallurgizdat, 1961. 439 p. (Series: Trudy Mezhvuzovskogo nauchnogo soveshchaniya) 2,150 copies printed.

Sponsoring Agency: Ministerstvo vysshego i srednego spetsial'nogo obrazovaniya RSFSR. Moskovskiy institut stali imeni I. V. Stalina.

Eds.: M. A. Glinkov, Professor, Doctor of Technical Sciences, V. V. Kondakov, Professor, Doctor of Technical Sciences, V. A. Kudrin, Docent, Candidate of Technical Sciences, G. N. Oyks, Professor, Doctor of Technical Sciences, and V. I. Yavoyskiy, Professor, Doctor of Technical Sciences; Ed.: Ye. A. Borko; Ed. of Publishing House: N. D. Gromov; Tech. Ed.: A. I. Karasev.

PURPOSE: This collection of articles is intended for members of scientific institutions, faculty members of schools of higher education, engineers concerned with metallurgical processes and physical chemistry, and students specializing in these fields.

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87

New [Developments] in the Theory (Cont.)

SOV/5556

COVERAGE: The collection contains papers reviewing the development of openhearth steelmaking theory and practice. The papers, written by staff

members of schools of higher education, scientific research institutes, and main leboratories of metallurgical plants, were presented and discussed at the Scientific Conference of Schools of Higher Education. The following topics are considered: the kinetics and mechanism of carbon exidation; the process of slag formation in open-hearth furnaces using in the charge either ore-lime briquets or composite flux (the product of calcining the mixture of lime with bauxite); the behavior of hydrogen in the open-hearth bath; metal desulfurization processes; the control of the open-hearth thermal molting regime and its automation; heat-engineering problems in large-capacity furnaces; aerodynamic properties of fuel gases and their flow in the furnace combustion chamber; and the improvement of high-alloy steel quality through the utilization of vacuum and natural gases. The following persons took part in the discussion of the papers at the Conference: S.I. Filippov, V.A. Kudrin, M.A. Glinkov, B.P. Nam, V.I. Yavoyskiy, G.B. Oyks and Ye. V. Chelishchev (Moscov Steel Institute); Ye. A. Kazachkov and A. S. Kharitonov (Zhdanov Metallurgical Institute); N.S. Mikhaylets(Institute of Chemical Metallurgy of the Siberian Branch of the Academy of Sciences USSR); A.I. Stroganov and D. Ya. Povolotskiy (Chelyabinsk Polytechnic Institute); P.V. Umrikhin Ural Polytechnic Institute); I.I. Fomin (the Moscow "Serp i molot Metallurgical Plant); V.A. Fuklev (Central Asian Polytechnic Institute)

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	New [Developments] in the Theory (Cont.) 80V/5556		
1	and M.I. Beylinov (Night School of the Dneprodzerzhinsk Metallurgical References follow some of the articles. There are 268 references, most	Institute). Lly Sowiet.	1
i 1	TARLE OF CONTENTS:		
į	Forevord	5	:
Į.	Yavoyskiy, V. I. [Moskovskiy institut stall - Moscow Steel Institute]. Principal Trends in the Development of Scientific Research in Steel	7	•
:	Manufacturing		
ì	Filippov, S. I. [Professor, Doctor of Technical Sciences, Moscov Steel Institute]. Regularity Patterns of the Kinetics of Carbon Oxidation	15	
1	in Metals With Low Carbon Content [V. I. Antonenko participated in the experiments]		
	Levin, S. L. [Professor, Doctor of Technical Sciences, Dnepropetrovskiy metallurgicheskiy institut - Dnepropetrovsk Metallurgical Institute].		
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<b>.</b> .	New [Developments] in the Theory (Cont.) BOV/5556		ļ
	Oyks, G.N., V.I. Danilin [Engineer], I.I. Ansheles [Docent, Candidate of Technical Sciences], G.A. Bokolov, and B.Z. Kononov [Engineers], [Moscov Steel Institute, "Krasnyy Oktyabr'" Plant]. Manufacture of		1
į	Roll-Bearing Steel With the Application of Ladle-Vacuum Treatment to Non-Deoxidized Metal	335	
1	Kravchenko, V.F. (Candidate of Technical Sciences), Ye. V. Abrosimov, and L.A. Lararev [Engineer], [Moscow Steel Institute, Magnitogorek Metallurgical Combine]. Improving the Quality of Rimmed-Steel Ingot		i t
!	by Vibration [Ye. I. Rabinovich, Candidate of Technical Sciences, M.K. Skul'skiy, A.G. Nikolayev, Yu. A. Goncharevskiy, and N.G. Zarzhitskaya, Engineers, participated in the research work]	343	
1	Nekrasov, Yu. V. [Engineer, Kuznetsk Metallurgical Combine]. Properties of Carbon and Alloy Steel Deoxidized by Different Methods [V.N. Maslova, S.N. Yeremenko, Ye. I. Gulyayeva, L.V. Glaskova, and Z.A. Ustalova participated in the research work]	351	
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经的情况。但我们的根据的**证明的法则不达证**有相关的关系的的法则的证明的是一种法的证明的法则是否可以证明的法则是这种的法则的证明的**证明的证明的证明的证明的证明的** 

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S/137/61/000/011/028/123 A060/A101

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AUTHORS:

Oyks, G.N., Danilin, V.I., Ansheles, I.I., Sokolov, G.A., Kononov,

B Z

TITLE: Production of ball-bearing steel with the use of ladle-vacuuming

of the unreduced metal

FERICDICAL. Referativnyy zhurnal. Metallurgiya, nt. 11, 1961, 59, abstract

11V346 (V sb. "Novoye v tecrii i praktike proiz-va martenovsk.stail"

Moscow, Metallurgizdat 1961, 335-342 Discuss 428 - 439)

According to the new technique the smelting of tail-rearing steel in basic furnaces is carried out with complete exidation and resmelting. The exidation period is carried out forcedly with the use of ore. The vat temperature before the elimination of the exidizing slag is 1,590-1,620°C. After drawing off the exidizing slag and correcting the metal with respect to its C content, Cr and Mn content, one adds in a single dose a slag mixture (3% of the weight of the metal) consisting of lime, spar, chamotte and Dinas block. Then a portion of ground take is put on top of the slag, the furnace is hermetically closed and scaking proceeds for 20-25 min. After attaining an S content of 20-25 the smell is

Card 1/2

3259<sup>8</sup> 5,137 61/000/011/028/123 A060/A101

Production of tall-tearing steel ...

Let into a ladde ingether with the slag. In the course of various treating the unreduced metal in the ladde, a vigorous cubrling priceels and takes 5-6 min. Thereupon 75% Fe-Si and Al are introduced from a special tunker under vacuum At the end of the vacuuming the metal is cast into 4.1 ton ingots. The quality of the steel was determined by the statistical method from a large number of heats smelted approximate to the experimental and the usual techniques. The quality of the metal ortained was retter. The nonmetallic impurity content constituted C-CO2r4% as compared to 0.00410%. The dimensions of the globules in the metal of the crimary heats is  $16-18\,\mu_{\odot}$  and in the experimental heats up to 10  $\mu_{\odot}$ . The task if the reducing period of the heat apporting to the new technique is the application of active desulfurating slag and the correction if the chemical composition. The mean duration of that period is  $1.32\,\rm hrs$  as compared to  $1.70\,\rm hrs$  in ordinary heats, the total heat duration was shortened by  $20\,\rm min$ , and the reducer expenditure was decreased considerably, as result of while the production cost of steel was decreased to 15 rub per ton.

Yu. Ne late

Abstracter's note. Complete translation:

Card 2/2

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3/137/61/006/00**8/009/**037 AU60/A101

AUTHORS: Danilin, V. I., Ansheles, I. I., Sokolov, G. A., Kononov, B. Z.

MITTLE New technique for producing ball-bearing steel under varioum

FERIODICAL. Referativnyy zhurnal, Metallurgiya, no. 8, 1961, 3, abstract 8V219 (V sb. "Fiz.-khim. osnovy proiz-va stali". Moscow, Metallurgizda\*, 1961, 466-473)

TEXT: The authors describe the results of an investigation of the quality of ball-bearing steel smelted by a new technique involving the use of vacuum at the plant "Krasnyy Oktyabr". The new technique provides for the reduction of the metal in a Fe-Mn furnace, and that of the slag - by ground coke. The metal is subjected to vacuum treatment in the ladle at an end pressure of 4-8 mm of mercury for a period of 8-10 min. About two minutes before the end of the vacuum treatment one introduces 3.6 kg/ton of 15% Fe-Si and 0.16 kg/ton of A., and thereupon the metal is poured in air. The technique described ensures a maximum utilization of the reducing properties of 0 and a righ degree of assimilation of Si (90%) and Al (56%). The shift to the new technique has led to a

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New technique for producing	3/137/61/300/008/009/031 AU60/A101	
cowering of non-metallic impurities in the tion in the duration of the reduction proce of deoxidizing agents.	finished steel, and als to a reduces and reduction in the expenditure	,
., 2	V. Shumskiy	$\bar{\wedge}$
Abstracter's note: Complete translation]		
Card 2/2		

S/133/61/000/005/004/009

AUTHORS:

Osipov, V.P., Engineer; Yefimov, V.A., Candidate of Technical Sciences; Matevosyan, P.A., Engineer: Danilin, V.I., Engineer; Lapshova, M.P., Engineer; Selivanov, V.M., Engineer; Lisov, I.V., Engineer; Lisov

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TITLE:

Pouring of high-alloy steels

PERIODICAL: Stal', no. 5, 1961, 415 - 418

TEXT: When stainless steel is poured, the surface layers of the ingot are deteriorated by folds, blisters and pock marks, which are mainly the result of oxides and gases in the metal. To avoid such defects, tests were carried out with pouring low-melting synthetic slags on the metal surface in the ingot mold. The hot-liquid slag decreases heat losses through radiation and checks the oxidation of the metal. The main purpose of the tests was to determine the effect of various factors on the formation of defects and the most suitable composition of synthetic slags to be used in this process. The slags were melted in a 20-ton single-phase arc furnace with conductive graphite bottom. The low-melting constituents (fluorite, cryolithe) were charged at first, on the bottom, next the

Card 1/4

\$/133/61/000/005/004/009 A054/A133

Pouring of high-alloy steels

other materials. The melting of a 50-kg batch of synthetic slag took l - l l/2 h. The slag was poured into a ladle and from this into the mold. When the metal level in the mold had risen to about 150 - 200 mm, about 15 - 16 kg slag was poured on its surface. In the tests X23H18 (Kh23N18) and 1X18H9T (1Kh18N9T) steel was bottom-cast into 4.1-ton ingots. Simultaneously with Douring into uncoated molds with synthetic slag, metal was also poured into lacquer-coated molds for comparison. Four types of slags were used with the following composition: CaO MgO MnO AI,O,

Na,AIP. SIO, group CaF 35-40 10-15 10-15 35-40 33.3 33,3 15 15 20 111 75 25 ١V

The best results were obtained with Group-I slags which are light grey-bluish when solid; when liquid, they humidify the metal very thoroughly. During smelting Kh18N9T steel, the slag composition changed as follows (numerator: composition before smelting; denominator: after smelting):

AI,O. TIO, Cr.O. FeO MnO SIO. CaO 35,4 37,12 0,31 0,35 0,48 0,11 11,42 14,30 2,12 32,72 35,99 1,50 6,17 1,74 0,97 13,16 13,40 1,00

It can be seen that synthetic slag adsorbs chrome and titanium oxides, which is promoted by the presence of CaO, moreover by CaF2, Na3AlF6 (cryolithe) and Na2SiO3

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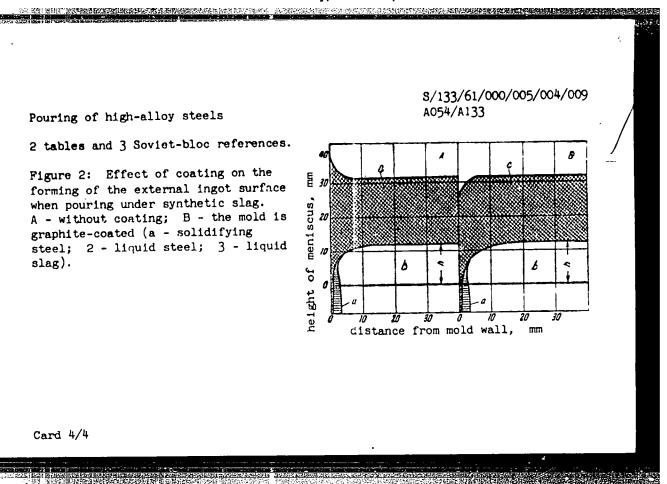
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S/133/61/000/005/004/009 A054/A133

Pouring of high-alloy steels

soluble glass). The adsorption of chrome and titanium oxides takes place also very rapidly. When 1Kh18N9T steel is poured into the mold to half its capacity, the titanium oxide content of slag increased from 0.6 to 2.5%, the chrome oxide content from 0.03 to 0.8%, while, when pouring was finished, the content of the above oxides increased to 3 and 1%, respectively. No folds were observed in the ingots which were poured under Group-I slags. The ingot surface was covered with a thin slag layer (like "enamel"), the thickness of which between ingot and moldwall on the edges was 0.3 - 0.5 mm, on the angles 3 mm. The test ingots had a flawless, smooth surface, while in the check-ingots the usual folds in the upper part and blisters in the lower part were found. Due to the synthetic slag layer, the intensity of heat removal from the ingot surface decreased 1.4 times; the shrinkage stresses in the ingot case also became lower. The intensity of shrinkage decreased and, moreover, the liquid slag flowed into the pores of the mold, hereby eliminating the delay of shrinkage and promoting the contraction of the ingot along the mold wall. The mechanical properties of synthetic slag-treated steels are partly equal to those of the conventional steels (strength limit and relative elongation), in some respects they are even better. In the test specimens of synthetic slag-treated 1Kh18N9T and X18-12-2T (Kh18N12M2T) steels no intercrystalline corrosion could be observed during the tests. There are 2 figures,

Card 3/4



BEREZIN, P.G., kand.tekhn.nauk, dotsent; DANILIN, V.I., inzh.; ZVEREV, A.A.,inzh.; YELISTRATOV, S.S., dotsent; ZAMECHNIK, F.F., inzh.; REDIN, P.P., inzh.

Improving the quality of cast iron for molds. Stal '21 no.6:571-575

Je '61.

1. Stalingradskiy mekhanicheskiy institut i zavod "Krasnyy Oktyabr'."

(Cast iron)

(Ingot molds)

L'ANILIN, V.I.

#### PHASE I BOOK EXPLOITATION

SOV/6329

- Oyks, Grigoriy Naumovich, Paruir Apetnekovich Matevosyan, Il'ya Insifovich Ansheles, <u>Vladimir Ivanovich Danilin</u>, Gennadiy Anisimovich Sokolov, Ivan Aleksandrovich Baranov, and Viktor Mikhaylovich Selivanov.
- Novaya tekhnologiya vyplavki sharikopodshipnikovoy stali (New Technology of Melting Ball-Bearing Steel). Moskva, Metallurgizdat, 1962. 124 p. Errata slip inserted. 2250 copies printed.
- Ed. of Publishing House: V. I. Ptitsyna; Tech. Ed.: P.G. Islent'yeva.
- PURPOSE: This book is intended for metallurgical engineers of steelmelting shops and central plant laboratories. It may also be useful to students at tekhnikums and metallurgical schools of institutions of higher leakning.
- COVERAGE: The book reviews the new technology of making ball-bearing steel, which was introduced at the "Krasnyy Oktyabr'" Metallurgical Plant in Volgograd. Vacuum degassing of metal is discussed as

Card 4/4 //2

中国共和国和中国的特殊的**对于中国中**国的经济的经济和企图的企业。1955年,1956年,19

# New Technology (Cont.) an intermediate technological stage of the melting process. A brief outline of the conventional method of melting ball-bearing steel is presented, along with advantages offered by the new technology, which ensures an improved steel quality. Designs of vacuum-units of the Plant are described. The book also reviews experiments in making silicon-free ball-bearing steel by double vacuum degassing. The quality of steel produced for several years by the new melting technology is discussed in detail. No personalities are mentioned. There are 61 references: 56 Soviet, 3 German, and 2 English.

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TRIBLE OF CONTENTS.	
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Ch. I. Brief Review of Existing Methods of Melting Ball- Bearing Steel Requirements for ball-bearing steel Basic principles of the classical technology of melting ball-bearing steel	7 7 10
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# DANILIN, V.I.

#### PHASE I BOOK EXPLOTATION

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Oyks, Grigorly Memovich, Parair Apethekovich Matevosyan, Il'ya Insifovich Anaholes, Yladimir Ivanovich Danilin, Germediy Anisimovich Scholov, Ivan Aleksandrovich Burumov, and Yiktor Mikhaylovich Schivanov.

Moveya teldmologiya vyplavki sharikopedshipnikovoy stali (New Technology of Melting Ball-Bearing Steel). Moskva, Metallurgiddet, 1962; 124 p. Bratta slip inserted. 2250 copies printed.

Ed. of Publishing Housest V. I. Ptitsyna; Teck, Ed.: P.G. Islant'yeva.

PURPOSE: This book is intended for metallurgical engineers of steelmelting shape and central plant laboratories. It may also be useful to students at telephillums and metallurgical schools of institutions of higher leasaing.

OCVERAGE: The book reviews the new technology of making ball-bearing steel which was introduced at the "Knowy Octyabr!" Notallurgical Plant in Velgograd, in: Thomas degreeing of matal is discussed as

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steel 1s	presented, along y	11th advantages	offered by th	e new	
vacuum-u	nits of the Plant s	re described.	The book also	reviews	
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personal	the new melting to ities are mentioned	ethnology is di L. There are 6	scussed in det 1 references:	411. No 56 Sovie	t,
	, and 2 English,				
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ball-bea	ring steel			10	
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HEREZIN, P.G.; DANILIN, V.I.; YELISTRATOV, S.S.; ZVEREV, A.A.;

ZAMECHNIK, F.P.

Efficient technology for the founding of large cast iron ingot molds. Stal' 23 no.2:181-184 F '63. (MIRA 16:2)

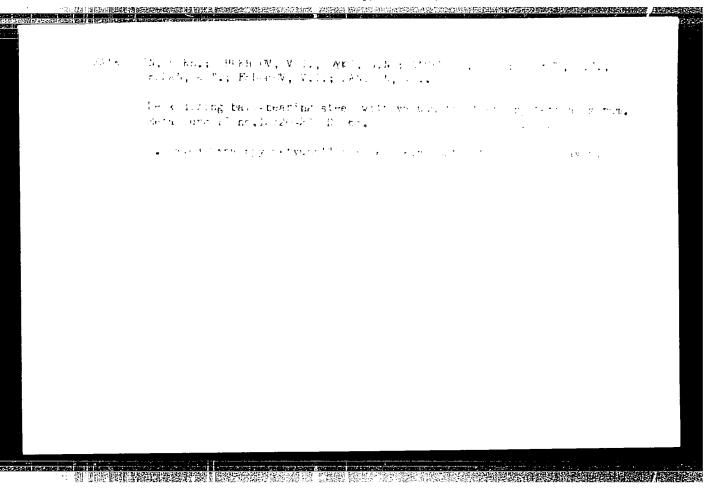
1. Volgogradskiy mekhanicheskiy institut i zavod

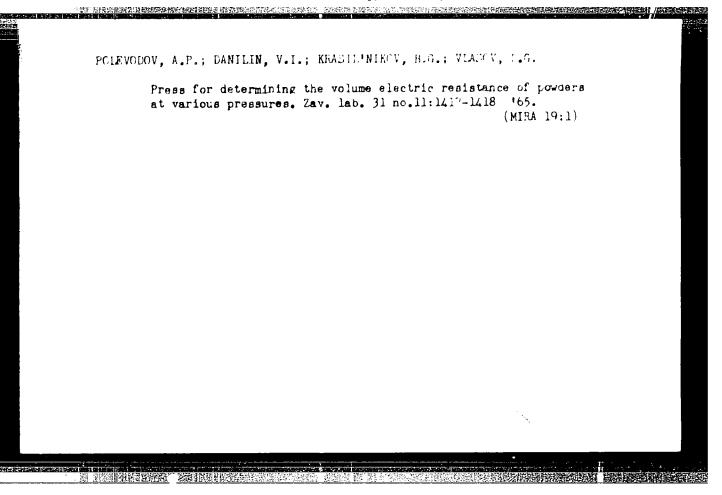
"Krasnyy Oktyabr'".

(Iron founding) (Ingot molds)
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UTHOR: <u>Vinnichenko, Ye. V.; Koste</u> elivanov, V. M.; Fedan, A. T.	rev, L. B.; Yavoyskiy, V. I.; Danilin, V	1
ITLE: Experiments with molten sl	g degassing of steel	
OURCE: IVUZ. Chernaya metallurg	ya, no. 3, 1965, 53-58	
OPIC TAGS: degassing, slag, chro	lum steel	4
eric furnace and mixed with the state furnace and mixed with the state the process. It was found that wislag and metal the original hydrograph another index of degassing is the finement. Several concomitant med	ne on four grades of steel: IKh13, Kh17 ty basic synthetic slag was prepared in el in an intermediate vessel before teen slag chemical composition were checked h properly prepared slag and good contact in content of the metal may be reduced by ydrogen content of the slag at the stary nanisms for degassing are adduced includ- cance from the electrode, it is possible blution of hydrogen in slag; but the dom	during it of / 20-30%. t of re- ing the that the

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A. F. Sen'kin p	articipated in the	work." Orig. art. h	as: 4 figures, 2 tables,	
A. F. Sen'kin p	oskovskiy institut urgicheskiy zavod	work." Orig. art. h	as: 4 figures, 2 tables,	





L 28479-66 EWT(m)/EHA(d)/EHP(t)/ETI IJP(c) JD/JG ACC MR. AP6010137 SOURCE CODE: UR/0133/	/66/000/003/0253/0257
(Candidate of technical sciences); Danilin, V. I. (Candidate Frantsuzov, S. N. (Engineer); Sinolitskiy, K. A. (Engineer); neer); Antipova, K. I. (Engineer); Selivanov, V. M. (Engineer) neer)	e of technical sciences); Stromova, R. P. (Engi-
ORG: Volgograd Scientific Research Institute of Machine Bui (Volgogradskiy ni. institut tekhnologii mashinostroyeniya)	lding Technology ; Krasnyy Oktyabr' Plant
TITLE: Effect of treatment with minute amounts of boron on Kh23N18 chromium-nickel steel 5 27  SOURCE: Stal', no. 3, 1966, 253-257	the properties of
TOPIC TAGS: stainless steel, boron, chromium steel, nickel weldsbility, metal scaling / Kh23Nl8 Cr-Ni stainless steel	steel, metal melting,
ABSTRACT: This effect was investigated for 12 laboratory memelts of Kh23Nl8 stainless heat-resistant chromium-nickel stall.82% Mn, 0.20-0.47% Si, 22.05-24.30% Cr, 18.48-19.24% Ni, -0.020% P). (The industrial melts contained 0.18-0.29% Cu.) Blaboratory melts in the form of 28% ferroboron prior to tapp	eel (0.08-0.13% C, 1.44- 0.013-0.033% P, 0.006- oron was added to the
Card 1/2 UDC: 66.046.51+546.27:6	69.15 194.669.24*25
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melts in the form of 10% ferroboron while filling the bottom one-third of the ladle, in proportions of 0.0047-0.0015%. Specimens taken from the ingots, after their hot and cold working, were subjected to microstructural examination and X-ray diffraction analysis. Findings: "microtreatment" with boron affects the structure and phase composition of stainless steels of the Kh23N18 type. At  $\sim 1150\,^{\circ}\text{C}$  the segregation of a boride phase, clearly visible under an optical microscope, is observed. In the temperature range 1050-1200°C and particularly at 1100-1150°C, treatment with minute amounts of B markedly enhances the plasticity of Kh23N18 steel thus reducing its susceptibility to external defects when rolled in a blooming mill. Under optimal conditions of final deoxidation (with 0.4-0.8 kg of Al per ton) prior to addition of boron, the percentage of defect-free slabs markedly increases and the labor requirement of finishing operations decreases; at the same time, savings of Ni are achieved. (To enhance the effectiveness of treatment with boron, final deoxidation with Al is required, since Al prevents the fixation of B by nitrogen and thus increases the degree of the assimilation of B.) If the B content is 0.003% and more, Kh23N18 steel becomes more prone to cracking during argon-arc welding whereas if the B content is 0.0015% and Al is used as the deoxidant, the weldability of this steel is as good as that of its boron-free counterpart. The addition of B within the limits investigated (up to 0.0047% inclusively) increases the resistance of Kh23N18 steel to scaling at 1000°C and when the B concentrations reach approximately 0.003-0.004%, also at 1100°C. Orig. art. has: 4 figures.

SUB CODE: 11, 13/

SURM DATE: none/ ORIG REF: 003/ OTH REF: 002

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ACC NRI	6 AT6021370	(A)	SOURCE CODE:	UR/2631/65/000/007/9691/0095	
AUTHOR :	Ozeryanaya, I.	N.; Krasil'nik	ova, N. A.; Smir	mov, M. V.; Darilir. V	.*
ORG: no	on <del>s</del>				
TITLE:	Use of the oxyge	n reference el	ectrode\in molte	n carbonates	
kinetika	nimiya raspiavie Lelektrodnykh pr	otsessov (Elec	ı tverdykh өлөк trochemistry of	himii. Trudy, no. 7, 1965, trolitov; termodinamika i fused salts and solid processes), 91-95	
TOPIC TA	GS: platinum, o	xygen, electro	de potential, ca	rbonate, chloride	
oxygen r	eference electro alvanic cell	ede in molten c	arbonates under	potential of the platinum various conditions, the emf	,
mixture	bathing the plat	inum. One of	the half-cells $w$	and composition of the gas as platinum bathed with a um and sodium carbonates, and	

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the other was a chlorine electrode in an equimolar mixture of potassium and sodium chlorides. The temperature dependence of the emf,  $\ell=0.446+6.40 \times 10^{-4} \, \text{T}$  V, was found to be in good agreement with the thermodynamically calculated quantity for the reaction

 $1/2K_2^{CO_3}(molten) + 1/2Na_2^{CO_3}(molten) + Cl_2(gas) \Rightarrow NaCl_{(molten)} + KCl_{(molten)} + CO_2(gas) + 1/2 O_2(gas)$ 

This shows the reversibility of the platinum oxygen electrode in carbonate melts. The potential of the platinum electrode in the carbonate melt was studied as a function of the  $CO_2-O_2$  mixtures bathing it. It is shown that for gas mixtures containing over 57.8 mole %  $CO_2$  at temperatures below 900°, the potential of the platinum electrode is described by the equation

$$E = \text{const} + \frac{RT}{2F} \ln P_{O_1}^{1/n} \cdot P_{CO_1}$$

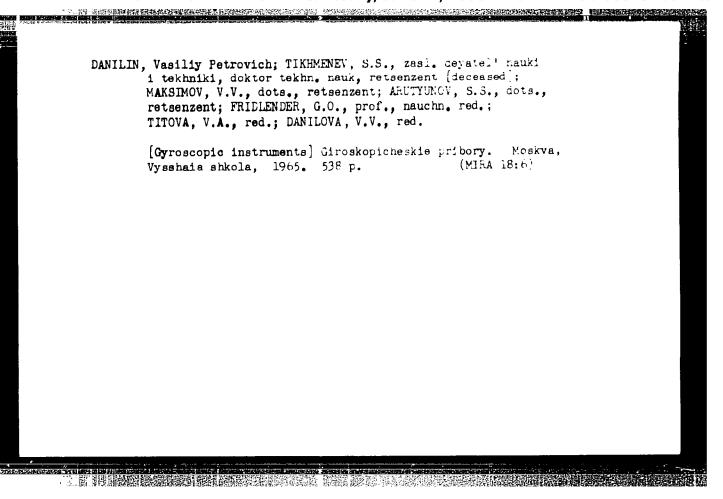
At lower partial pressures of  $CO_2$ , particularly in pure oxygen, the potential of the platinum electrode becomes unstable and shifts markedly toward negative values. Orig. art. has: 3 figures and 12 formulas.

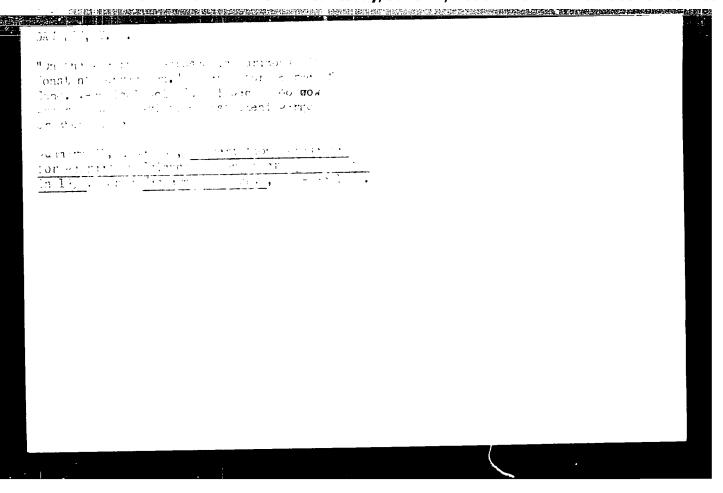
SUB CODE: 07/ SUBM DATE: 23Aug65/ ORIG REF: 006/ OTH REF: 008 O9/

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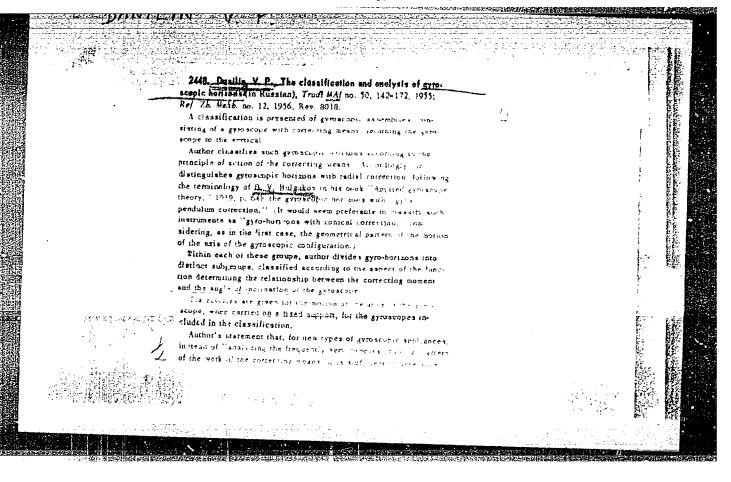
DANILIN, V. P.

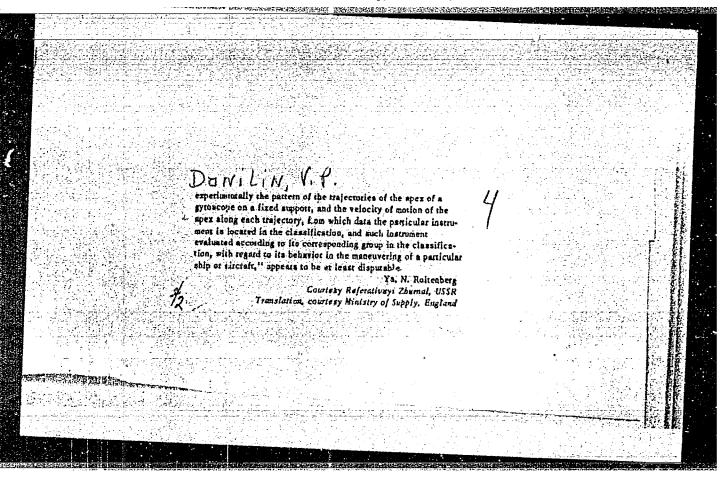
"On the Theory of the Behavior of a Gyro-Horizon With Constant Radical Correction During Banking," by V. P. Danilin, Tr. MAI, Issue 41, 1955, pp 155-159 (from Referativnyy Zhurnal -- Mekhanika, No 10, Oct 56, Abstract No 6387, by Ya. N. Roytenberg)

In a banking airplane (with constant linear and angular velocity of the airplane) the motion of the gyro-horizon being studied is represented by two first order nonlinear differential equations (the nutational vibrations of the gyroscope are disregarded).

The state of equilibrium of the upper part of the gyroscope is determined, and it is shown that the trajectory of the gyroscope top approaches this state of equilibrium.

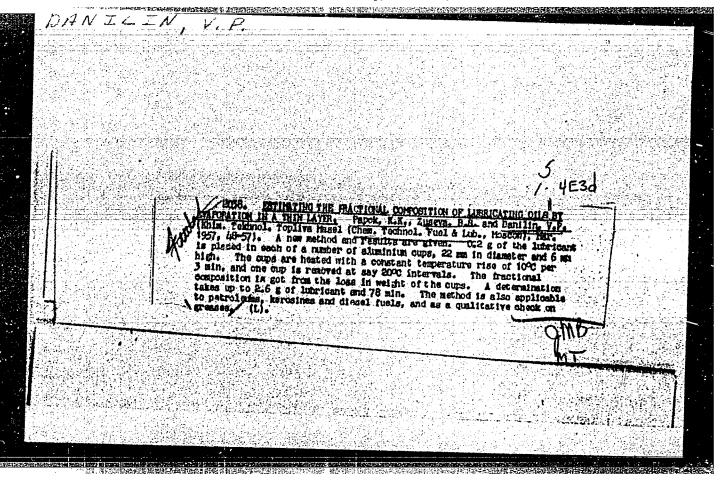
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DANILIN. V.P., kandidat tekhnicheskikh nauk, dotsent: YURIEVICH, A.P., kandidat tekhnicheskikh nauk, dotsent.

Book review. (Aeronautical gyroscope instruments." V.A. Pavlov. Revieved by V.P. Danilin, A.P. IUrkevich.) Priborstroenie no.4; 32-p.) of cover Ap '56. (MLRA 9:8) (Aeronautical instruments) (Gyroscope) (Pavlov, V.A.)



DANILIN, V.P., dots., kand.tekhn.nauk

New method for reducing errors of gyro horizons at turns.
Nauch.dokl.vys.shkoly; mash.i prib. no.1:189-192 '58.

(MIRA 12:1)

1. Predstavleno kafedroy AP-1 Moskovskogo aviatsionnogo instituta.

(Artificial horizons (Aeronautical instruments))

VANILIN V.K.

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PHASE I BOOK EXPLOITATION

SOV/3491 SOV/11-M-109

Moscow. Aviatsionnyy institut imeni Sergo Ordzhonikidze

· The Third I Have the Residence of the

Aviatsionnoye priborostroyeniye i avtomatika; sbornik statey (Instrument Making and Automatic Systems in Aviation; Collection of Articles) Moscow, Oborongiz, 1959. 147 p. (Series: <u>Its</u> Trudy, vyp. 109) Errata slip inserted. 5,200 copies printed.

Sponsoring Agency: USSR, Ministerstvo vysshego obrazovaniya.

Ed.: B. A. Ryabov, Doctor of Technical Sciences, Professor; Ed. of Publishing House: N. A. Gortsuyeva; Tech. Ed.: L. A. Garnukhina; Managing Ed: A. S. Zaymovskaya, Engineer.

PURPOSE: This book is intended for scientific and technical personnel in the field of instrument making and automation, and for students of technical schools of higher education.

COVERAGE: The book is a collection of 10 articles describing certain aspects of aircraft automatic control and regulation and aviation instrument making. The

Card 1/5

SOV/3491 Instrument Making and Automatic (Cont.) articles consist of parts of the authors' dissertations or describe results of scientific research work of the Department of Aircraft Instruments and Automatic Systems of the Moscow Aviation Institute. References are given at the end of some articles. TABLE OF CONTENTS: Pre face 3 Pemykayev, I. I., Candidate of Technical Sciences. The Problem of Relative Motion The author studies the kinematics of relative motion in complex systems and derives relationships between kinematic elements (velocity and acceleration) of the motion of a point with respect to each system. The problem is important in the construction of navigational systems. Danilin, V. P., Candidate of Technical Sciences. Using Gyroscopes With Three Degrees of Freedom for Measurement of Angular Velocities 22 Card 2/5

SOV/3491 Instrument Making and Automatic (Cont.) Danilin, V. P., Candidate of Technical Sciences. Diagrams of Biaxial Measuring Devices of Angular Velocities on the Basis of a Gyroscope With Three Degrees of 33 Freedom The author considers independent methods of fluid velocity measurement, compensation of temperature errors, and some other problems of aviation instrument production. Vovchenko, N. Ya., Candidate of Technical Sciences. Dynamic Characteristics of Velocity Spiral Vane Flowmeters The author discusses dynamic errors of flowmeters in measuring variable rate flows. Analytic formulas are established and experimental verification of coefficients is given. Denisov, V. G., Candidate of Technical Sciences. Application of Similarity Theory and of Physical Modelling to the Investigation of Velocity Flowmeters 58 for Liquids The author presents an effective method for determining the basic characteristics of current-type flowmeters under various operating conditions. Results obtained by theoretical methods were checked experimentally. Card 3/5

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Instrument Making and Automatic (Cont.) SOV/3491	
Vovchenko, N.Ya., and A. P. Yurkevich, Candidates of Technical Scient Analysis of Kinematic Temperature Compensation The authors present a method of compensating for temperature erro in navigational instruments with linear and nonlinear characterist of membrane deflections.	70
Yurkevich, A. P., Candidate of Technical Sciences; and Engineer Yu. Anan'yev. Methods of Measuring Velocity of an Airflow  The authors review Soviet and foreign literature on variable airflow measuring methods.	<b>F.</b> 79
Vertinov, A. I., and S. R. Mizurin, Candidates of Technical Science.  Precise Regulation of D. Motor Speed  The authors have developed a method of controlling synchronous rotation speeds of d-c motors which has a high stabilization accu	94
Karogodin, V. M., Candidate of Technical Sciences. A Problem of Fig. Mircraft Dynamics The author establishes and solves the differential equation of fighter aircraft motion, finds the law of this motion on the trajectory, computes <b>leads</b> acting on the fighter aircraft, and determines the method of its control.	h <b>ter</b> 121
The author establishes and solves the differential equation of fighter aircraft motion, finds the law of this motion on the trajectory, computes <b>Beads</b> acting on the fighter aircraft and	

Instrument Making and Automatic (Cont.)

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Karagodin, V. M., Candidate of Technical Sciences. A Nonlinear Problem in the Vibration Theory

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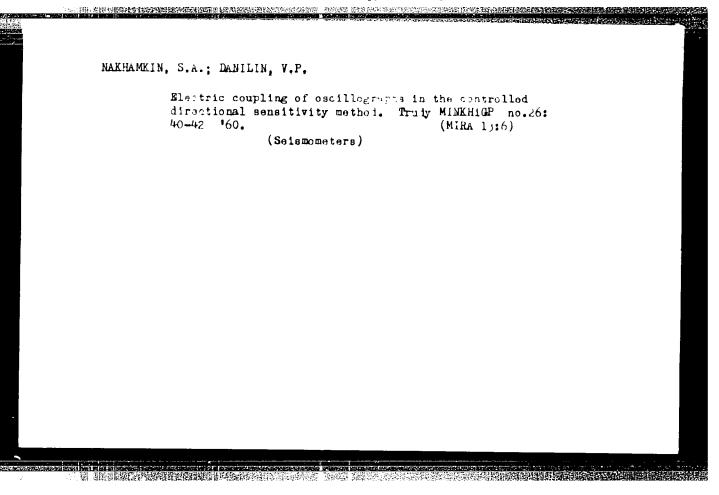
The author considers a mechanical system with one degree of freedom. He studies conservative systems with forces depending on coordinates and velocities. Selfoscillating systems and conservative systems with forces depending only on coordinates are not considered.

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AC/11 5-6-60

138

Card 5/5



NAKHAMKIN, S.A.; DANILIN, V.P.

Use of diffracted waves in plotting seismic profiles in the controlled directional sensitivity method. Trudy MINKHIGP no.26:97-112 '60. (MERA 1::-)

(Aktyubinsk Province-Seismic prospecting)

ZERNESSENDER STEEL VERSEL VERSELEN DE STEEL VERSELEN VERSELEN VERSELEN VERSELEN VERSELEN VERSELEN VERSELEN VER 5/081/82/005/005/083/112 B162/3101 Papok, K. K., Zarubin, A. P., Zuseva, s. J., Danilin, V. P., AUTHORS: Zakharov, G. V., Kuznetsov Ye. G., Slavinskiy, A. G. Jet of methods for evaluating the effects of additives on the TIPLE operating properties of motor oils PERICDICAL: Referativnyy zhurnal. Khimiya, no. 5, 1902, 520-529, abstract 5.42 % (3b. "Prisaški k maslam i tojlivam". M., Gostoptekhizdat, 1761, 253-26%) TEXT: It is proposed that the operating property s of alter oils containing additives be evaluated by a series of laboratory methods consisting of 3 groups: (1) micromethods total consumption of oil, 10 ml), (2) tests on (PZV) and (PZZ) apparatus (total concentrich of oil, 0.5 1) and (3) teuts on the 19-5 (IT9-5) and 1 39-3 (IT9-3) single cylinder engines (total consumption of oil, 2.5 1). The first group covers letermination of: thermooxidizing stability and co-fficient of lacquer formation % ( 4953-49 (GOST 4953-49) and 9352-50 (GOST 9352--60)), motor volatility, active fraction and tendency to form lacquer Card 1/3

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Set of methods ...

75737-53 (GCST 5737-53)), thin-layer evaporation of the 6.18074-58 (GUST 8674-58)), critical lacquer formation temperature (method described) and the scale-forming properties by evaporating 0.2 g of oil in an aluminum cup at 100°C until a carbon residue is formed (method lescribed). On the PZV apparatus, they evaluate the washing properties of the oil according to 5726-52 (GOUT 5726-52) and the emulsifying properties (method described ). In the test on the PZC apparatus the oil is mixed with air and circulated at 15000 through a cell with lead and copper plates, and after 2 hrs circulation the corresion of the lead plates is determined, the sediment in the oil on diluting with isopotane and the evaporation of the bil juring the test (method described). On the ITy-5 engine primary motor tests are correct out by the WII GSM-20 method for 20 hrs, evaluating the formation of lacquer on the piston and the corrosion properties of the oil from the loss in weight of the lead plates in the cell through which the working oil circulates. On the IT9-3 engine the scale-forming capacity of the oil is evaluated by the PZI (method described), by which the quantity of scale on aluminum surfaces

Card 2/3

Set of methods ...

in the precombustion chamber of the engine is neterrine; the oil being adiclina quantity of 3 % to the fael (1-1 (T3-1) or white spirit) and I five-minute tests being carrier but for each oil adapte. The results of the evaluation of oils with different adultives using these methods are given. Abstractor's note: Complete translation.

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**HALLOWN DEPOCHATION STREET TO STREET** 

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Lapok, K.K., Danilin, V.P.

TailL: If h temperature properties of lubricating oils

TD Challed: Editming a technological torling a masel, no.6, 1962, 54-58

I.A.. The carbon residue which is commonly iself assess the deposit former tendencies of lubrication oils is considered to be an unrefally reasure. The following procedure is accordingly recommended to issess the deposit forming tendencies of lubricating oils. A C.2 g sample of oil contained in an open aluminium vessel is placed in the standard apprintus for assessing licquer forming tendencies (FDCT4953-49 (GCST 1953-49)) on a disc at a temperature of 400°C. When eviporation of the oil has visibly ceased the lid is placed on the vessel and it is maintained at the same temperature for the same time as was required to complete evaporation. The vessel is then removed from the disc, cooled and weighed and the amount of deposit formed is expressed as a percentage of the oil sample. Two parallel tests are conducted and the mean values taken, the difference between them should not exceed the following figures: for residue up to 3% Card 1/2